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NOTICE OF ALLOWANCE AND FEE(S) DUE

25944

7590

06/26/2008

OLIFF & BERRIDGE, PLC P.O. BOX 320850 ALEXANDRIA, VA 22320-4850 EXAMINER

SOLIS, ERICK R

ART UNIT PAPER NUMBER

3747

DATE MAILED: 06/26/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/594.965	06/25/2007	Kyoung-Oh Kim	129621	5649

TITLE OF INVENTION: CONTROL APPARATUS FOR AN INTERNAL COMBUSTION ENGINE CAPABLE OF PRE-MIXED CHARGE COMPRESSION IGNITION

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	09/26/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (571)-273-2885

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where n

maintenance fee notificat	d below or directed oth ions. ENCE ADDRESS (Note: Use Blo			Note Fee(s	: A certificate of ma	uiling can only be used for	t correspondence address as arate "FEE ADDRESS" for or domestic mailings of the for any other accompanying
				papei have	rs. Each additional p its own certificate of	aper, such as an assignme mailing or transmission.	ent or formal drawing, must
25944 7590 06/26/2008 OLIFF & BERRIDGE, PLC P.O. BOX 320850 ALEXANDRIA, VA 22320-4850				I her State addre trans	eby certify that this is Postal Service with essed to the Mail S	cate of Mailing or Trans Fee(s) Transmittal is bein a sufficient postage for fir top ISSUE FEE address (571) 273-2885, on the o	g deposited with the United st class mail in an envelope above, or being facsimile
							(Depositor's name)
							(Signature)
							(Date)
APPLICATION NO.	FILING DATE		FIRS	ST NAMED INVENTOR	A	TTORNEY DOCKET NO.	CONFIRMATION NO.
10/594,965 TITLE OF INVENTIO COMPRESSION IGNITI		RATUS FOR AN	INTER	Kyoung-Oh Kim NAL COMBUSTION	ENGINE CAPAE	129621 LE OF PRE-MIXED	5649 CHARGE
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUI	BLICATION FEE DUE	PREV. PAID ISSUE F	EE TOTAL FEE(S) DUE	E DATE DUE
nonprovisional	NO	\$1440		\$300	\$0	\$1740	09/26/2008
EXAMI	INER	ART UNIT	(CLASS-SUBCLASS			
SOLIS, E	RICK R	3747	•	123-295000			
 Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Custome Number is required. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED O 			nce (c (r ner 2 li	(1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.			
PLEASE NOTE: Unle	ess an assignee is identi rin 37 CFR 3.11. Comp 3NEE	ified below, no assig letion of this form is	gnee data NOT a s (B)	n will appear on the pa substitute for filing an a) RESIDENCE: (CITY	tent. If an assignee ssignment. and STATE OR CO	UNTRY)	document has been filed for
4a. The following fee(s) are submitted: ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			4b. Pa	4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number			
	SMALL ENTITY statu	s. See 37 CFR 1.27.				ENTITY status. See 37 C	EFR 1.27(g)(2). he assignee or other party in
interest as shown by the r	ecords of the United Star	tes Patent and Trade	mark Off	ice.	. appneam, a registe	rea autorney of agent, of t	ne assignee or other party III
Authorized Signature					Date		
Typed or printed name					_		
This collection of informa an application. Confident submitting the completed this form and/or suggesti Box 1450, Alexandria, V. Alexandria, Virginia 223	iality is governed by 35 application form to the ons for reducing this bur irginia 22313-1450. DO	FR 1.311. The informu.S.C. 122 and 37 (USPTO. Time will den, should be sent DNOT SEND FEES	mation is CFR 1.14 vary dep to the Ch OR COM	required to obtain or re I. This collection is esti- bending upon the indivi- ief Information Officer MPLETED FORMS TO	etain a benefit by the mated to take 12 min dual case. Any come t, U.S. Patent and Tr THIS ADDRESS.	public which is to file (an nutes to complete, includi- ments on the amount of ti ademark Office, U.S. Dep END TO: Commissioner	d by the USPTO to process) ng gathering, preparing, and me you require to complete partment of Commerce, P.O. for Patents, P.O. Box 1450,

PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.

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OLIFF & BERR	IDGE, PLC	SOLIS, ERICK R		
P.O. BOX 320850		ART UNIT	PAPER NUMBER	
ALEXANDRIA, V	/A 22320-4850	3747		
		DATE MAILED: 06/26/2008		

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 0 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 0 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Notice of Allowability Application No. Application Application No. 10/594,965 KIM ET AL. Examiner Art Unix 20/594,965 KIM ET AL. Examiner Art Unix 20/594,965 KIM ET AL. Examiner Art Unix 20/594,965 KIM ET AL. 20/594			
Reaminer Entitle Solis		Application No.	Applicant(s)
Erick Solis 3747		10/594,965	KIM ET AL.
The MAILING DATE of this communication appears on the cover sheet with the correspondence address-Alaims being allowable, PROSECUTION ON THE MERTS IS (OR REMAINS) CLOSED in this application. In the included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication wilb be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CRT 1.318 and MPEP 1308. 1. ☑ This communication is responsive to the papers received on 64/2008. 2. ☑ The allowed claim(s) is/are 1-25. 3. ☑ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☑ All b) ☐ Some* c) ☐ None of the: 1. ☑ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in Application No 4. ☐ Certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). 5. ☐ Certified copies not received: 1. ☐ Certified copies not received: 2. ☐ Certified copies not received: 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). 5. ☐ Certified copies not received: 1. ☐ Applicant has THREE MONTH PERON IN THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONNENT of this application. 7. ☐ THIS THREE MONTH PERON IS NOT EXTENDABLE. 4. ☐ A SUBSTITUTE OATH OR DECLARATION what be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the cost or declaration is deficient. 8. ☐ CORRECTED DRAWINGS (as "replexement sheets") must be submitted. 9. ☐ DePOSIT OF And/or IN	Notice of Allowability	Examiner	Art Unit
All claims being allowable, PROSECUTION ON THE MERTS IS (OR REMAINS) CLOSED in this application, if not included herewith (or previously mailed), a Notice of Novance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. 1. A This communication is responsive to the papers received on 6/4/2008. 2. The allowed claim(s) is/are 1-25. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified opies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in his national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received:		Erick Solis	3747
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3.	1. X This communication is responsive to the papers received of	<u>on 6/4/2008</u> .	
a) All b) some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). *Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDOMMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) be Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. Notice of Parferences Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Paper No./Mail Date 7. Examiner's Statement of Reasons for Allowance of Biological Material 9. Other /Erick Solis/	2. ☑ The allowed claim(s) is/are <u>1-25</u> .		
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material 5. Notice of Informal Patent Application 6. Interview Summary (PTO-413), Paper No./Mail Date 7. Examiner's Amendment/Comment 8. Examiner's Statement of Reasons for Allowance 9. Other /Erick Solis/	a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority doc International Bureau (PCT Rule 17.2(a)). * Certified copies not received:	e been received. been received in Application No cuments have been received in this of this communication to file a reply IENT of this application. itted. Note the attached EXAMINER es reason(s) why the oath or declara be be submitted. son's Patent Drawing Review (PTO- c. s Amendment / Comment or in the C. 84(c)) should be written on the drawithe header according to 37 CFR 1.121(sit of BIOLOGICAL MATERIAL I	national stage application from the complying with the requirements. S AMENDMENT or NOTICE OF ation is deficient. 948) attached Office action of the back) of d). must be submitted. Note the
	Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit	5. Notice of Informal F 6. Interview Summary Paper No./Mail Da 7. Examiner's Amendi 8. Examiner's Stateme 9. Other /Erick Solis/	Patent Application (PTO-413), te ment/Comment ent of Reasons for Allowance